

OHIO ENVIRONMENTAL PROTECTION AGENCY DIVISION OF ENVIRONMENTAL RESPONSE AND REVITALIZATION

PRELIMINARY ASSESSMENT APPROVAL FORM for

PURITAN LAUNDRY

Tuscarawas County
U.S. EPA ID OHN000506120
Ohio EPA Project ID 479001337003

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Preliminary Assessment Report for Puritan Laundry



Division of Environmental Response and Revitalization

June 2016

PRELIMINARY ASSESSMENT (PA) REPORT

For

PURITAN LAUNDRY
243 6th Street Southwest
New Philadelphia, Tuscarawas County, Ohio
U.S. EPA ID: OHN000506120

OHIO ENVIRONMENTAL PROTECTION AGENCY
Division of Environmental Response & Revitalization
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June 2016

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1.0 EXECUTIVE SUMMARY

The Ohio Environmental Protection Agency (Ohio EPA) Division of Environmental Response and Revitalization (DERR) entered into a cooperative agreement with the United States Environmental Protection Agency (U.S. EPA) Region V to conduct a Preliminary Assessment (PA) of the former Puritan Laundry (Puritan), New Philadelphia, Tuscarawas County, Ohio (Figure 1 Site Location Map). The purpose of this report is to evaluate site history and summarize available data to determine if further action and sampling is necessary.

A Pre-CERCLA Screening (PCS) report was completed by Ohio EPA and submitted to U.S. EPA on October 21, 2015.

2.0 SITE BACKGROUND

2.1 Site Description

The former Puritan site is a 2.42 acre property located at 243 6th Street SW, New Philadelphia, Tuscarawas County, Ohio (Figure 2 Site Features map). The site is situated approximately 1760 feet to the northwest and hydraulically up-gradient of the New Philadelphia well field. The well field consists of four (4) groundwater supply wells whose source water, approximately 4.5 million gallons per day, is drawn from a high yielding, 2000 gallons per minute, unconfined glacial outwash aquifer comprised of sand and gravel deposits located along the Tuscarawas River. The current property owner is the Hicks Revocable Trust.

2.2 Site History

The Puritan Laundry and Dry Cleaning Company operated from the early 1900s to 1985. On August 30, 1985, a fire destroyed the Puritan Laundry building and its contents. According to an August 1987 U.S. EPA Potentially Responsible Party Search Report (Jacobs Engineering Group Inc.) completed for the New Philadelphia Well Field Site, the president of Puritan, William Hicks (deceased former owner and operator), stated that the facility used approximately 50 gallons of tetrachloroethylene (PCE) annually from 1975 to 1985. The company received the solvent in cartridges from M&L Company in Akron, Ohio and from Ashland Refinery. Prior to using PCE, Puritan Laundry used Stoddard solvent (mineral spirits) which was delivered in tanker trucks and pumped into drums.

Soil and ground water at the Puritan site have been impacted by the release of PCE. The date(s) and quantity of the release are unknown, but Ohio EPA sampling data has identified the site as the source of both on-site and off-site ground water contamination. The high-yield aquifer that underlies the site and surrounding region is a natural resource that has been impacted by the release. On-site concentrations of PCE in the aquifer are as high as $434 \mu g/L$.

The Maximum Contaminant Level (MCL) for PCE is $5\mu g/L$. Off-site concentrations of PCE in the aquifer range as high as 638 $\mu g/L$. Ground water data indicates that the PCE plume generated by the release has migrated and reached the ground water production wells of the city of New Philadelphia Well Field, located approximately 1760 feet to the southeast. The users of this public drinking water system are potential receptors; persons exposed to contaminated soils at the Puritan site are also potential receptors. The site is not fenced and access to the property is not restricted.

Volatile organic compounds (VOCs) were discovered in the New Philadelphia well field in 1981. In 1984, it was determined that two separate VOC contaminant plumes, a northern and a western plume, were both contributing to ground water contamination within the city's well field. Chemicals of concern within the northern plume consisted primarily of trichloroethylene (TCE) and its breakdown products and the chemicals of concern within the western plume were identified primarily as tetrachloroethylene (PCE) and its breakdown products. In 1984, Joy Technologies (Joy) was identified as the source of the northern VOC plume and the company entered into an Administrative Order with Ohio EPA in 1990, which included an agreement for Joy to install and operate an air stripper system at the New Philadelphia well field in order to remove contaminants from the public water supply. The air stripper also removes contaminants entering the well field from the western VOC plume.

2.3 Site Assessment History

A Pre-CERCLA Screening (PCS) report was completed by Ohio EPA and submitted to U.S. EPA on October 21, 2015.

2.4 Other Clean-up Authorities

Ohio EPA conducted sampling investigations in 1984, 1985, 2000 and 2001 to locate the source of the PCE contamination. Piezometers at the New Philadelphia Well Field, just west of the Water Treatment Plant, were most recently sampled in 2014.

2.4.1 Previous Site Work

Since the initial detection of PCE over 30 years ago, various site investigations have been conducted by State and local authorities to identify the source(s) of contamination to the well field. A summary of the more recent activities is provided below.

1981

In 1981, the city of New Philadelphia well field began detecting VOCs in its production wells. The primary contaminant was trichloroethylene (TCE), but additional compounds include 1,1,1-trichloroethane (1,1,1-TCA); 1,1-dichloroethene (1,1,-DCE); cis- and trans-

1,2-dichloroethylene (1,2-DCE); and PCE.

1984

An investigation was conducted to attempt to locate the source of ground water contamination not associated with Joy Technologies. As part of the investigation, 14 test pits were installed at the Gradall facility, located to the west of the well field and southwest of the Puritan site. The test pits were installed by Gradall at the request of Ohio EPA, and were excavated to a depth of 1 to 2 feet below the water table. Analysis of water samples collected from the bottom of the excavations indicated detections of TCA, 1,1-Dichloroethane (DCA), trans 1,2-DCE, TCE and vinyl chloride. The summary and conclusions from the 1984 report indicated that the western contaminant plume was migrating through the Gradall property from a source up-gradient. This contaminant plume was impacting the New Philadelphia municipal wells southeast of the Gradall facility. Based on the results it was concluded that city's production wells was enhancing the ground water gradients and increasing the rate of contaminant flow through the Gradall property.

1985

At the request of Ohio EPA, Gradall installed three monitoring wells at their facility. The ground water sampling showed that MW-1, located up-gradient of the manufacturing facility and on the western corner of the property, was contaminated with a variety of VOCs. MW-2, located to the southeast and down-gradient of the property, had low levels of VOCs similar to those detected in the city well field. MW-3, located to the east of the facility along the eastern edge of the property, did not contain detectable levels of contaminants. The conclusion from the investigation was that the source of contamination for the western plume was up-gradient of the Gradall facility and the contaminants were migrating with the natural ground water flow under the Gradall property.

2000

Ohio EPA installed Geoprobe® borings along Mill Avenue directly north of the Gradall facility, and along the edge of the city well field directly east of Gradall. Three discrete ground water samples were collected from each of the nine borings and submitted for laboratory analysis for VOCs. Results of the investigation indicated that the highest concentration of ground water VOCs (specifically, PCE at 494 µg/L) was found at boring GP-5A, located north (and upgradient) of the Gradall facility along Mill Avenue. PCE was also detected in five additional borings. The data indicated that the contamination present in ground water beneath the Gradall property was migrating from a source, or sources, upgradient of Gradall.

Results from this 2000 investigation suggested a possible link between the western plume of contamination at the New Philadelphia Well Field and the former Puritan site. The Puritan site is located at the corner of Mill Avenue and Bank Lane, approximately 1760 feet northwest and up-gradient of the city well field. A summary of the laboratory analytical results for the Ohio EPA Geoprobe investigation conducted in 2000 can be found in Table 2. A sample location map (Figure 8) is with the table.

2001

Ohio EPA contracted the drilling of 18 cone penetrometer and 7 direct-push borings to perform additional in-situ ground water sampling (Figure 5, 6, 7). Twelve borings were located on the eastern end of the Gradall property and at the city well field. Seven of the borings were located on or near the former Puritan Laundry property. Ground water results provided additional data defining the horizontal and vertical extent of the PCE plume. Samples collected north and west of the Puritan Laundry property had no PCE detections. Three shallow soil samples collected on the Puritan property found PCE concentrations as high as 214 μ g/kg. Data generated during this investigation provided further indication that the Puritan Laundry property was the source of the western plume. The data from this investigation is included in Table 1, Ground Water Analytical Results New Philadelphia West Plume Investigation New Philadelphia.

2014

Ohio EPA completed follow-up groundwater monitoring of 5 piezometers located along the western border of the city of New Philadelphia's well field property, approximately 400 feet west of the city's public water wells and directly to the east of the Gradall industrial property. Results of this monitoring demonstrated that PCE concentrations ranged as high as 132 μ g/L in the upper ground water zone (20 foot depth) and as high as 66.5 μ g/L in the lower ground water zone (40 foot depth).

2015

An October 19, 2015 phone interview with Ed Wilson, Water Superintendent – city of New Philadelphia verified that, although concentrations in the raw water supply have decreased since they were first detected in the 1980s, PCE is still detected as a contaminant within the city's raw water supply and is removed through the treatment plants' air stripper system prior to distribution.

3.0 SITE GEOLOGY, HYDROGEOLOGY AND LAND USE

3.1 Geology and Hydrogeology

The subsurface geologic materials in the vicinity of the former Puritan site consist of a thick unit of unconsolidated sand and gravel deposits of the Tuscarawas River valley alluvial aquifer. The unit is capped by finer textured deposits of silt, fine sand, and trace amounts of clay. The finer-grained deposits typically transition to the coarser sand and gravel at depths between 10 and 20 feet below ground surface. Under the nearby Joy Technologies facility, the cumulative thickness of the unconsolidated deposits was measured at approximately 200 feet based on the installation of deep monitoring wells. At the former Puritan site, which is located on a terrace 15-20 feet higher in elevation than the well field, ground water occurs at depths of approximately 30 feet below ground surface. The depth to water becomes shallower in the direction of the New Philadelphia well field, where it is approximately 15 feet below ground surface. Well logs are located in Appendix B.

Pumping tests completed at the New Philadelphia well field in 1987 indicated very high values of hydraulic conductivity (K) for the aquifer, on the order of 1.38×10^{-1} cm/sec. The ground water flow velocities below the Joy facility have been calculated to be on the order of 850 feet/year.

The bedrock that lies beneath the thick alluvial aquifer consists of shales, sandstones, conglomerates, claystones, coals, iron ores, and limestone of the Pennsylvanian-aged Allegheny and Pottsville formations.

3.2 Land Use and Demographic Information

Tuscarawas County is known primarily for industry and farming; however, woodland is one dominant land use. Other land uses include residential and recreational development. Industry is diversified and includes manufacturing of steel, chemicals, and vitrified clay products.

New Philadelphia is both the largest city and the county seat of Tuscarawas County. It is located 71 miles south of Cleveland and 119 miles northeast of Columbus on the Tuscarawas River. It was established in 1804. New Philadelphia is a mixture of residential, commercial and light industrial land use. It is primarily surrounded by farmland and pastures.

At the time of the 2010 census, there were 17,288 people, 7,282 households, and 4,541 families residing in the city. The population density was 2,103.2 inhabitants per square mile

(812.1/km²). There were 7,909 housing units at an average density of 962.2 per square mile (371.5/km²). The racial makeup of the city was 94.0% White, 1.2% African American, 0.4% Native American, 0.6% Asian, 0.4% Pacific Islander, 1.6% from other races, and 1.8% from two or more races. Hispanic or Latino of any race was 4.2% of the population. The median income for a household in the city was \$33,235, and the median income for a family was \$42,896.

4.0 MIGRATION PATHWAYS

4.1 Soil Exposure Pathway

The soil exposure pathway is not believed to be a major pathway of concern. While access to the site is uncontrolled, there are no workers or residents on-site. Three shallow soil samples collected on the Puritan Laundry property found PCE concentrations as high as 214 μ g/kg. VOCs are the only identified site contaminants and are not typically a concern for direct contact exposure. While VOCs were detected in samples collected, the full extent of soil contamination is unknown. On-site VOC contaminated soils are believed to be the source of VOC contamination in groundwater. Vapor migration from source soils has not been evaluated. Approximately 7,510 residents live within a one mile radius of the site. Appendix C contains the Geographic Information System Data and Maps for the Target Limit Distance Maps.

4.2 Ground Water Pathway

Ground water is the primary pathway of concern due to known VOC ground water contamination affecting a large area including New Philadelphia's well field. The Puritan Laundry site is located within New Philadelphia's wellhead protection area (WPA). As of October 2015, PCE is still being detected within the city's raw water supply and is removed through the treatment plants' air stripper system prior to distribution. New Philadelphia obtains its drinking water from four wells screened in the unconsolidated sand and gravel aquifer. Three community water systems are located within the 4-mile target distance limit. These include the New Philadelphia which serves an approximate population of 17,056 and is located less than 0.5 miles from the Puritan Laundry site; Wilkshire Hills Community Water System which serves an approximate population of 12,826.

4.3 Surface Water Pathway

The surface water exposure pathway is not a major pathway of concern. The Tuscarawas River borders New Philadelphia's well field. Ohio EPA has no direct data regarding whether the well field and the Tuscarawas River are hydraulically connected. However, based on data from very similar hydrogeologic settings, including other locales along the Tuscarawas River, it is safe to

assume there is at least a moderate degree of connection between the river and the aquifer. There are no downstream surface water intakes on the Tuscarawas River within the 15-mile target distance limit. One state endangered species, the Plains Clubtail (*Gomphus externus*) a species of dragonfly, is located within the 15-mile target distance limit downstream of the Puritan Laundry site.

4.4 Air Pathway

Vapor intrusion is currently not scored under the Hazard Ranking System. However, vapor intrusion is a potential exposure pathway which could potentially affect off-site receptors. Elevated levels of PCE are present in the ground water and in on-site soils. Static water level in the well field is approximately 15 feet below ground surface.

5.0 SUMMARY

Sampling data from previous investigations indicate contaminants have impacted both the soil on-site and the ground water both on-site and off-site. Additional sampling is necessary to further characterize the nature and extent of contamination and to ensure off-site receptors are not being impacted.

6.0 REFERENCES

Division of Environmental Response and Revitalization Files. Ohio EPA, DERR, SEDO

Division of Drinking and Ground Waters Files. Ohio EPA, DDAGW, SEDO

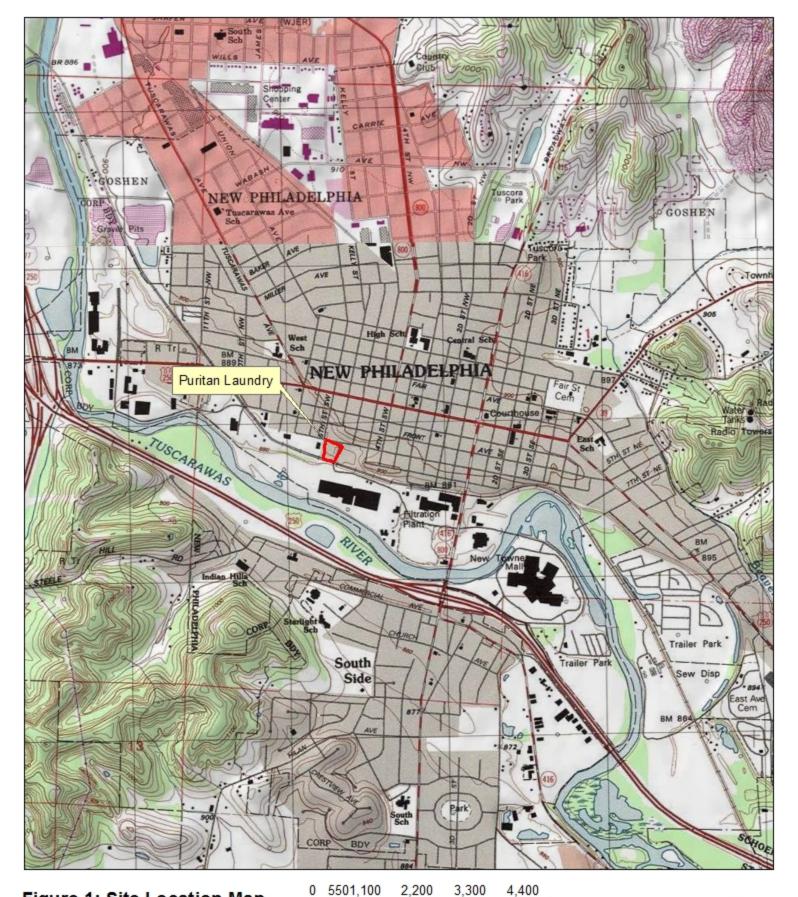
Pre-CERCLA Screening Checklist/Decision Form completed by Ohio EPA and submitted to U.S. EPA October 21, 2015.

Appendix A

Figures and

Corresponding Anlaytical

Data Tables



Ohio Environmental Protection Agency

Figure 1: Site Location Map
Puritan Laundry
New Philadelphia, OH Tuscarawas County
U.S. Topographic Map 1:24000 feet





Figure 2: Site Features Map

Puritan Laundry

New Philadelphia, OH Tuscarawas County

ArcGIS Map Service Internet

Server:

http://services.arcgisonline.com/arcgis/services

Name: \(\text{World_Imagery} \)





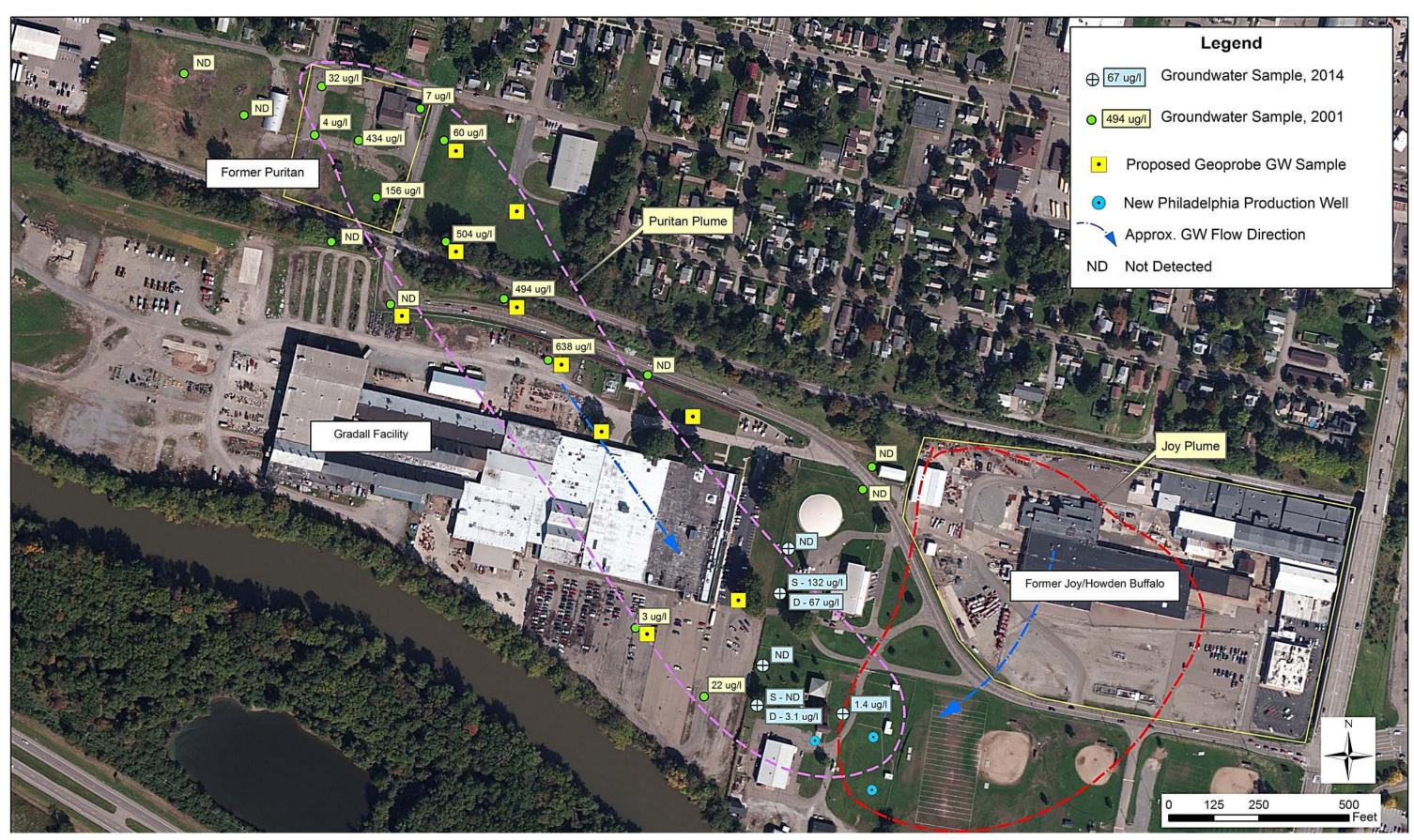


Figure 3: Puitan Laundry Previous Analytical Data 2001 and 2014 Source: Ohio EPA Southeast District Office Files



ESTIMATED EXTENT OF PCE PLUME

PURITAN LAUNDRY NEW PHILADELPHIA, TUSCARAWAS CO. (overlay on 1960 site features)

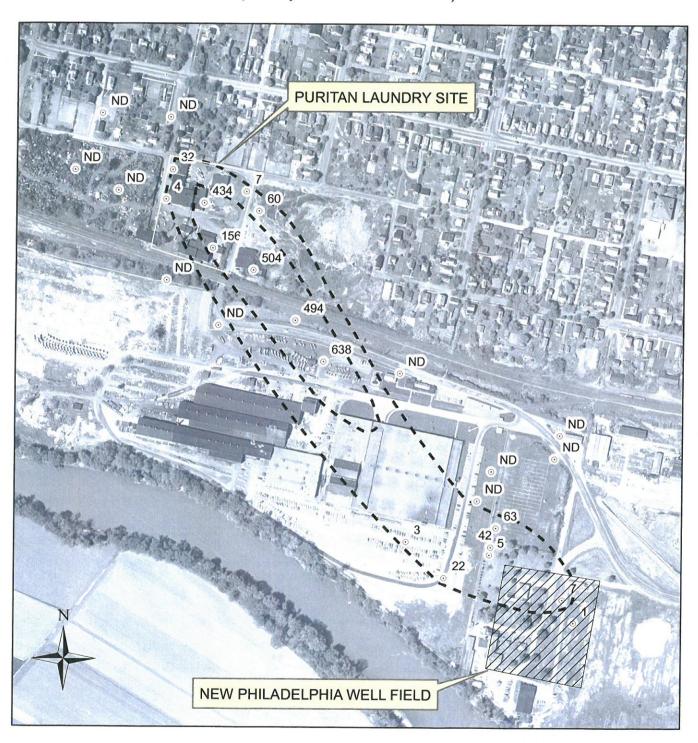
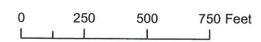
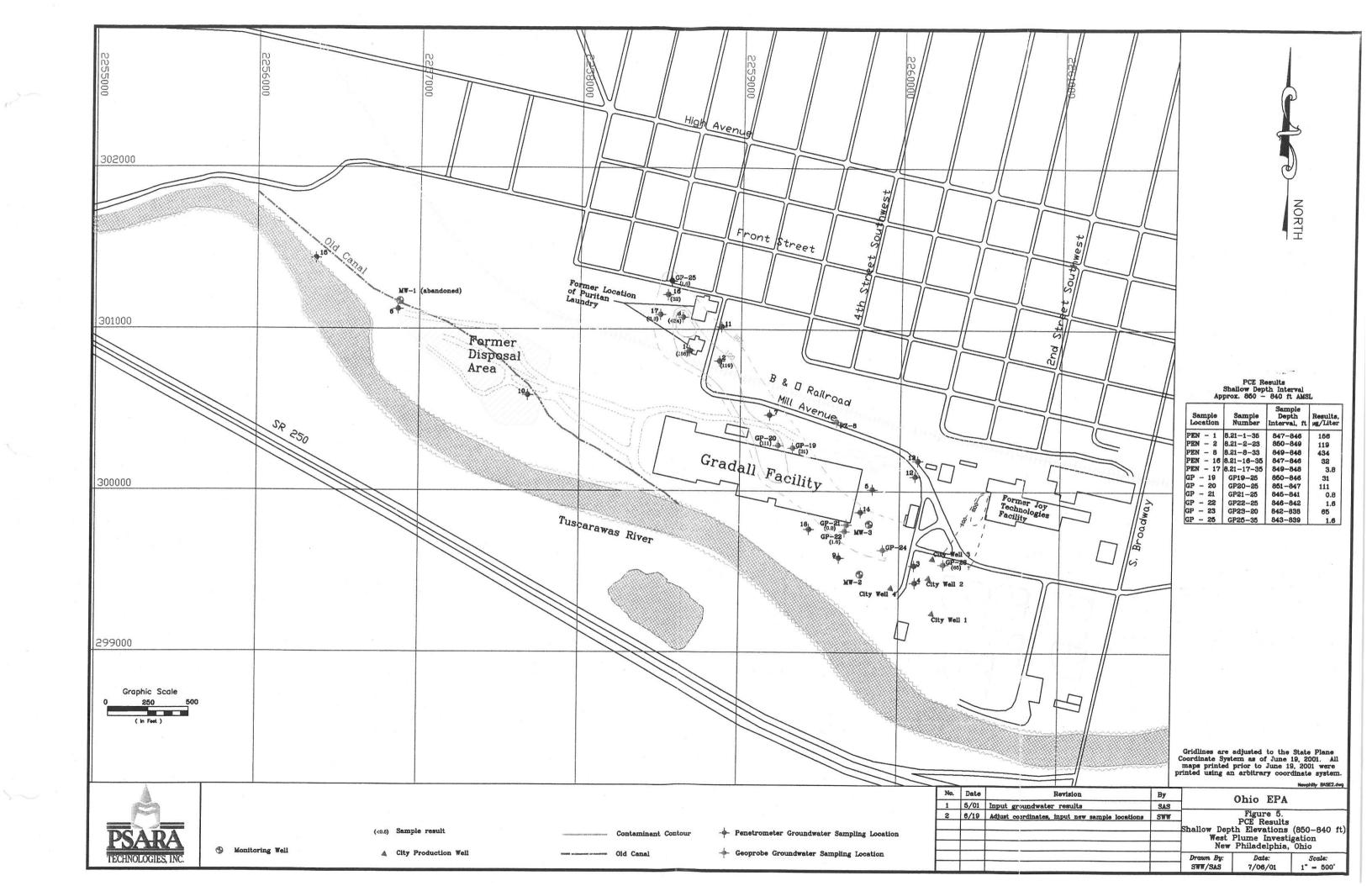
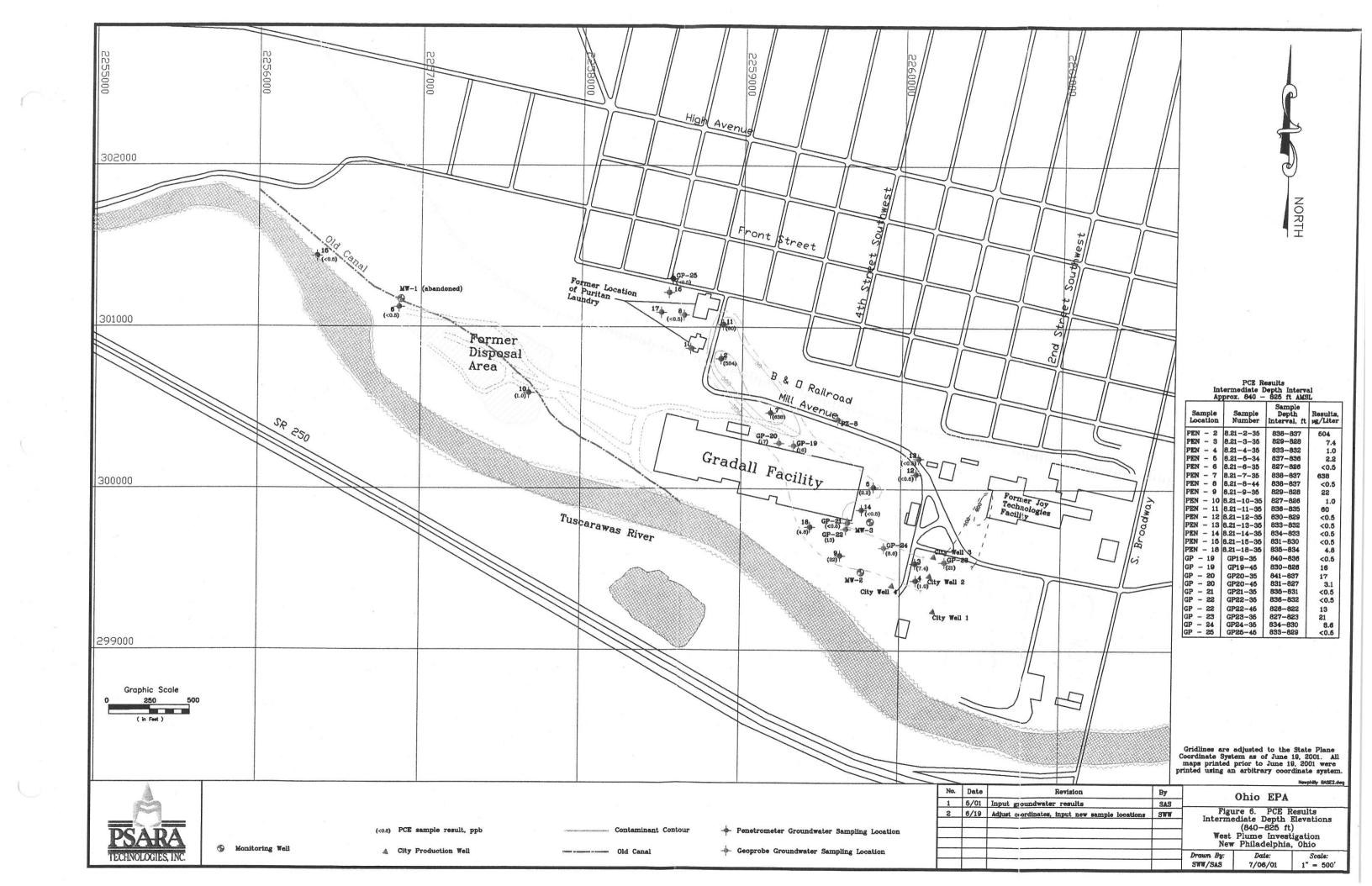


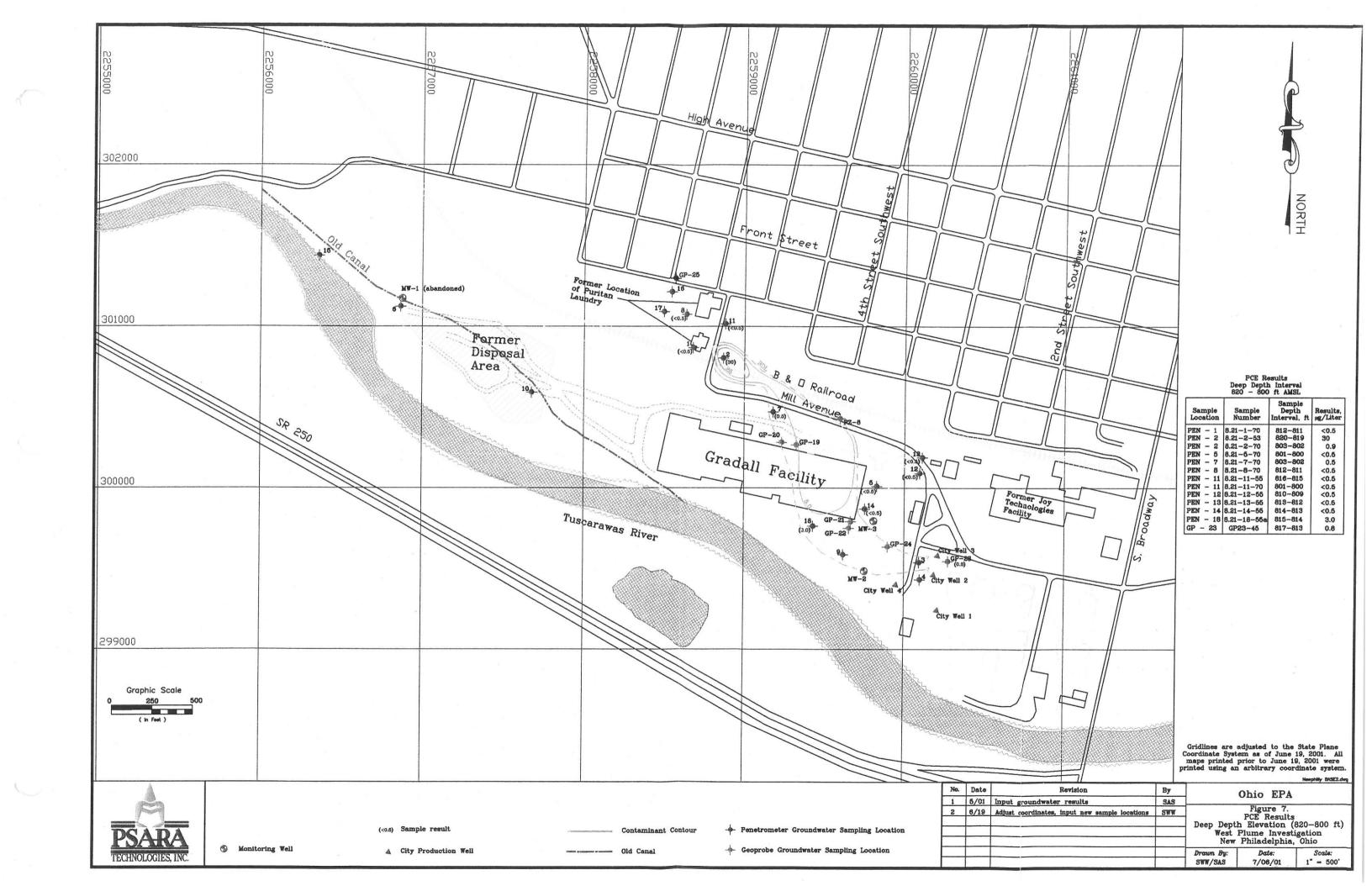
Figure 4: Puritan Laundry Estimated Extent for PCE Plume 1960

PCE Concentration in Groundwater, ug/l









Table, 1 Groundwater Analytical Results New Philadelphia West Plume Investigation New Philadelphia, Ohio

Depth Interval, ft (bgs) Sample Elevation, ft AMSL	8.21-1-35 34-35 847-846	8.21-1-70 69-70 812-811	8.21-1-70a 69-70 812-811	8.21-2-23 22-23 850-849	8.21-2-35 34-35 838-837	8.21-2-53 52-53 820-819	8.21-2-70 69-70 803-802	8.21-3-35 34-35 829-828	8.21-3-70 69-70 794-793	8.21-3-104 103-104 760-759	8.21-4-35 34-35 833-832	8.21-4-70 69-70 798-797	8.21-4-107 106-107 761-760	8.21-5-34 33-34 837-836	8.21-5-70 69-70 801-800	8.21-5-95 94-95 776-775	8.21-6-35 34-35 827-826	8.21-6-70 69-70 792-791	8.21-6-10 104-105 757-756
olatile Organic Compounds,	The Court of the latest of the	22. 15.	ů.									1200 000 0000000	100		=	770 775	027-020	172-171	757-750
1,1-Dichloroethane	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5
cis-1,2-Dichloroethene	< 0.5	< 0.5	< 0.5	12	8.1	9.8	< 0.5	1.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5
1,1,1-Trichloroethane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	2.6	<0.5	<0.5
n-Propylbenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	
sec-Butylbenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5			<0.5
n-Butylbenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5
Carbon tetrachloride	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5
Benzene	< 0.5	0.5	0.5	0.6	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	0.8	0.5	<0.5			<0.5	0.6	<0.5	< 0.5
Bromofluorobenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5		0.8	<0.5	<0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5
Methylene chloride	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5
Trichloroethene	< 0.5	< 0.5	< 0.5	5.3	5.7	1.6	<0.5	1.1	<0.5	<0.5		<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5
Toluene	0.9	0.7	0.7	1.8	1.2	1.0	0.5	1.1	0.5	<0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	21	< 0.5	< 0.5
trans-1,2-Dichloroethene	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5		1.9	0.7	0.6	2.4	0.6	< 0.5	1.2	1.0	0.5
Tetrachloroethene	156	< 0.5	< 0.5	119	504	30	0.9	7.4		<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5	< 0.5
Total xylenes	0.5	<0.5	<0.5	1.1	0.7	0.7	< 0.5		0.6	<0.5	1.0	<0.5	<0.5	2.2	< 0.5	<0.5	< 0.5	< 0.5	4.1
1,2,4 Trimethylbenzene	<0.5	<0.5	<0.5	0.6	<0.5	<0.5		0.5	<0.5	< 0.5	0.8	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichlorobenzene	<0.5						<0.5	<0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	1.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
		< 11.7																	
-,- Siemeroonien	<u> </u>	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
		8.21-7-35a		8.21-7-110	8.21-8-33	8.21-8-44	8.21-8-70	<0.5 8.21-9-35		51		1010						15000000	
							8.21-8-70	8.21-9-35	8.21-9-70	8.21-9-112 8	3.21-10-35 8	3.21-10-35a	8.21-10-70 8	3.21-10-102	8.21-11-35	8.21-11-55	8.21-11-70 8	3.21-12-35	8.21-12-5
Sample Number Depth Interval, ft (bgs)	8.21-7-35	8.21-7-35a	8.21-7-70	8.21-7-110	8.21-8-33	8.21-8-44	\$500,000°	×		8.21-9-112 8 111-112	3.21-10-35 { 34-35	3.21-10-35a 34-35	8.21-10-70 8 69-70	3.21-10-102 101-102	8.21-11-35 34-35	8.21-11-55 54-55	8.21-11-70 <i>8</i>	3.21-12-35 34-35	8.21-12-5 54-55
Sample Number	8.21-7-35 34-35 838-837	8.21-7-35a 34-35	8.21-7-70 69-70	8.21-7-110 109-110	8.21-8-33 32-33	8.21-8-44 43-44	8.21-8-70 69-70	8.21-9-35 34-35	8.21-9-70 69-70	8.21-9-112 8 111-112	3.21-10-35 8	3.21-10-35a	8.21-10-70 8	3.21-10-102	8.21-11-35	8.21-11-55	8.21-11-70 8	3.21-12-35	8.21-12-5
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL	8.21-7-35 34-35 838-837	8.21-7-35a 34-35	8.21-7-70 69-70	8.21-7-110 109-110	8.21-8-33 32-33 849-848	8.21-8-44 43-44 838-837	8.21-8-70 69-70 812-811	8.21-9-35 34-35 829-828	8.21-9-70 69-70 794-793	8.21-9-112 8 111-112 752-751	3.21-10-35 8 34-35 827-826	3.21-10-35a 34-35 827-826	8.21-10-70 8 69-70 792-791	3.21-10-102 101-102 760-759	8.21-11-35 34-35 836-835	8.21-11-55 54-55 816-815	8.21-11-70 8 69-70 801-800	3.21-12-35 34-35 830-829	8.21-12-5 54-55 810-809
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Datile Organic Compounds,	8.21-7-35 34-35 838-837 ug/L	8.21-7-35a 34-35 838-837	8.21-7-70 69-70 803-802	8.21-7-110 109-110 763-762 <0.5	8.21-8-33 32-33 849-848 <0.5	8.21-8-44 43-44 838-837	8.21-8-70 69-70 812-811 <0.5	8.21-9-35 34-35 829-828 <0.5	8.21-9-70 69-70 794-793	8.21-9-112 8 111-112 752-751	3.21-10-35 8 34-35 827-826	3.21-10-35a 34-35 827-826	8.21-10-70 8 69-70 792-791 <0.5	3.21-10-102 101-102 760-759 <0.5	8.21-11-35 34-35 836-835	8.21-11-55 54-55 816-815	8.21-11-70 8 69-70 801-800 <0.5	3.21-12-35 34-35 830-829 <0.5	8.21-12-5 54-55 810-809 <0.5
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Datile Organic Compounds, 11,1-Dichloroethane 1,1-Dichloroethene	8.21-7-35 34-35 838-837 ug/L <0.5	8.21-7-35a 34-35 838-837 <0.5	8.21-7-70 69-70 803-802 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5	8.21-8-44 43-44 838-837 <0.5 <0.5	8.21-8-70 69-70 812-811 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5	8.21-9-70 69-70 794-793 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5	3.21-10-35 8 34-35 827-826 23 <0.5	3.21-10-35a 34-35 827-826 22 <0.5	8.21-10-70 8 69-70 792-791 <0.5 <0.5	3.21-10-102 101-102 760-759 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5	8.21-11-70 8 69-70 801-800 <0.5 <0.5	3.21-12-35 34-35 830-829 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Datile Organic Compounds, 1,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 32	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5	3.21-10-35 { 34-35 827-826 23 <0.5 6.6	3.21-10-35a 34-35 827-826 22 <0.5 6.1	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Dlatile Organic Compounds, 1 1,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 32 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 32 <0.5	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 1.3	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5	3.21-10-35 8 34-35 827-826 23 <0.5 6.6 27	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Datile Organic Compounds, 11,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane n-Propylbenzene	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 32 <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 32 <0.5 <0.5	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5 1.4	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 1.3 <0.5	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5 <0.5	3.21-10-35 8 34-35 827-826 23 <0.5 6.6 27 <0.5	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25 <0.5	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Datile Organic Compounds, 1,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane n-Propylbenzene sec-Butylbenzene	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 32 <0.5 <0.5 <0.5	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5 1.4 1.1	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 1.3 <0.5 <0.5	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-35 8 34-35 827-826 23 <0.5 6.6 27 <0.5 <0.5 <0.5	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25 <0.5 <0.5	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Dlatile Organic Compounds, 1,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane n-Propylbenzene sec-Butylbenzene p-Isopropyltoluene	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 32 <0.5 <0.5 <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 32 <0.5 <0.5 <0.5 <0.5	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5 1.4 1.1	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 1.3 <0.5 <0.5 <0.5	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-35 { 34-35 827-826 23 <0.5 6.6 27 <0.5 <0.5 <0.5	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25 <0.5 <0.5 <0.5	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Dlatile Organic Compounds, 1,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane n-Propylbenzene sec-Butylbenzene p-Isopropyltoluene n-Butylbenzene	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 32 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5 1.4 1.1 1.2 0.5	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 1.3 <0.5 <0.5 <0.5 <0.5	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-35 8 34-35 827-826 23 <0.5 6.6 27 <0.5 <0.5 <0.5 <0.5 <0.5	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25 <0.5 <0.5 <0.5	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Datile Organic Compounds, 1,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane n-Propylbenzene sec-Butylbenzene p-Isopropyltoluene n-Butylbenzene Carbon tetrachloride	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 32 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5 1.4 1.1 1.2 0.5 <0.5	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 1.3 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-35 8 34-35 827-826 23 <0.5 6.6 27 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Datile Organic Compounds, 1,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane n-Propylbenzene sec-Butylbenzene p-Isopropyltoluene n-Butylbenzene Carbon tetrachloride Benzene	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 32 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5 1.4 1.1 1.2 0.5 <0.5	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 1.3 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-35 { 34-35 827-826 23 <0.5 6.6 27 <0.5 <0.5 <0.5 <0.5 <0.5 0.6	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25 <0.5 <0.5 <0.5 <0.5 <0.5 0.6	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Datile Organic Compounds, 1,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane n-Propylbenzene sec-Butylbenzene p-Isopropyltoluene n-Butylbenzene Carbon tetrachloride Benzene Bromofluorobenzene	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 32 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5 1.4 1.1 1.2 0.5 <0.5 <0.5	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 1.3 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-35 8 34-35 827-826 23 <0.5 6.6 27 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Ilatile Organic Compounds, 1 1,1-Dichloroethane 1,1-Dichloroethene 2,1,1-Trichloroethane 1,1,1-Trichloroethane 1-Propylbenzene 2-Isopropyltoluene 1-Butylbenzene Carbon tetrachloride Benzene Bromofluorobenzene Ethylbenzene	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 32 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5 1.4 1.1 1.2 0.5 <0.5 <0.5	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-35 8 34-35 827-826 23 <0.5 6.6 27 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25 <0.5 <0.5 <0.5 <0.5 <0.5 0.6	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Ilatile Organic Compounds, 1,1-Dichloroethane 1,1-Dichloroethene 2,1,1-Trichloroethane 1,1,1-Trichloroethane 1-Propylbenzene 2-Esopropyltoluene 1-Butylbenzene 2-Isopropyltoluene 1-Butylbenzene 2-Isopropyltoluene 2-Isopropyltoluene 2-Isopropyltoluene 3-Butylbenzene 2-Isopropyltoluene 2-Isopropyltoluene 3-Isopropyltoluene 3-Iso	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5 1.4 1.1 1.2 0.5 <0.5 <0.5 <0.5	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-35 8 34-35 827-826 23 <0.5 6.6 27 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Datile Organic Compounds, 1,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane 1-Propylbenzene sec-Butylbenzene D-Isopropyltoluene 1-Butylbenzene Carbon tetrachloride Benzene Bromofluorobenzene Ethylbenzene Methylene chloride Crichloroethene	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5 1.4 1.1 1.2 0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 1.3 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-35 8 34-35 827-826 23 <0.5 6.6 27 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Ilatile Organic Compounds, 1,1-Dichloroethane 1,1-Dichloroethene 2,1,1-Trichloroethane 1,1,1-Trichloroethane 1-Propylbenzene 1-Isopropyltoluene 1-Butylbenzene 2-Isopropyltoluene 1-Butylbenzene 2-Isopropyltoluene 1-Butylbenzene 2-Isopropyltoluene 1-Butylbenzene 2-Isopropyltoluene 2-Isopropyltoluene 3-Butylbenzene 2-Isopropyltoluene 3-Butylbenzene 3-Isopropyltoluene 3-Isopropyltoluen	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5 1.4 1.1 1.2 0.5 <0.5 <0.5 <0.5 <0.5 <1.4 1.1 1.2 1.2 1.2 1.2 1.3 1.4 1.4 1.4 1.4 1.5 1.4 1.5 1.4 1.4 1.6 1.6 1.7 1.7 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-35 { 34-35 827-826 23 <0.5 6.6 27 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Ilatile Organic Compounds, 1 1,1-Dichloroethane 1,1-Dichloroethene 2,1,1-Trichloroethane 1,1,1-Trichloroethane 1,-Propylbenzene 2,-Isopropyltoluene 1,-Butylbenzene 2,-Isopropyltoluene 1,-Butylbenzene 2,-Isopropyltoluene 2,-Isopropyltoluene 2,-Isopropyltoluene 2,-Isopropyltoluene 2,-Isopropyltoluene 2,-Isopropyltoluene 2,-Isopropyltoluene 2,-Isopropyltoluene 2,-Isopropyltoluene 3,-Isopropyltoluene 4,-Isopropyltoluene 5,-Isopropyltoluene 6,-Isopropyltoluene	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5 1.4 1.1 1.2 0.5 <0.5 0.6 <0.5 <0.5 <1.4 <1.1 1.2	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 1.3 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-35 8 34-35 827-826 23 <0.5 6.6 27 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Datile Organic Compounds, 1,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethane 1,1,1-Trichloroethane n-Propylbenzene sec-Butylbenzene p-Isopropyltoluene n-Butylbenzene Carbon tetrachloride Benzene Bromofluorobenzene Ethylbenzene Methylene chloride Frichloroethene Toluene Toluene Tetrachloroethene	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5 1.4 1.1 1.2 0.5 <0.5 <0.5 <0.5 <0.5 <1.4 1.1 1.2 1.2 1.2 1.2 1.3 1.4 1.4 1.4 1.4 1.5 1.4 1.5 1.4 1.4 1.6 1.6 1.7 1.7 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-35 8 34-35 827-826 23 <0.5 6.6 27 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Datile Organic Compounds, 1,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane n-Propylbenzene sec-Butylbenzene b-Isopropyltoluene n-Butylbenzene Carbon tetrachloride Benzene Bromofluorobenzene Ethylbenzene Chylbenzene Carbon tetrachloride Fichloroethene Toluene Toluene Total xylenes	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5 1.4 1.1 1.2 0.5 <0.5 0.6 <0.5 <0.5 <1.4 <1.1 1.2	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-35 8 34-35 827-826 23 <0.5 6.6 27 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <1.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.
Sample Number Depth Interval, ft (bgs) Sample Elevation, ft AMSL Dlatile Organic Compounds, 1,1-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene 1,1,1-Trichloroethane n-Propylbenzene sec-Butylbenzene p-Isopropyltoluene n-Butylbenzene	8.21-7-35 34-35 838-837 ug/L <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-35a 34-35 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-7-70 69-70 803-802 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-7-110 109-110 763-762 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-8-33 32-33 849-848 <0.5 <0.5 2.7 <0.5 1.4 1.1 1.2 0.5 <0.5 0.6 <0.5 <0.5 <1.4 <0.5 <4.5 <4.5 <4.5 <4.5 <4.5 <4.5 <4.5 <4	8.21-8-44 43-44 838-837 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-8-70 69-70 812-811 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-35 34-35 829-828 <0.5 <0.5 <0.5 1.3 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-70 69-70 794-793 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-9-112 8 111-112 752-751 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-35 8 34-35 827-826 23 <0.5 6.6 27 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <1.5 <0.5 <1.2 <1.2 <1.0	3.21-10-35a 34-35 827-826 22 <0.5 6.1 25 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	8.21-10-70 8 69-70 792-791 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	3.21-10-102 101-102 760-759 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-35 34-35 836-835 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-11-55 54-55 816-815 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0	8.21-11-70 8 69-70 801-800 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <	3.21-12-35 34-35 830-829 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	8.21-12-5 54-55 810-809 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.

Table 1(continued). Groundwater Analytical Results New Philadelphia West Plume Investigation New Philadelphia, Ohio

Sample Number	8.21-12-70	8.21-13-35	8.21-13-55	8.21-13-70	8.21-14-35	8.21-14-55	8.21-14-70	8.21-14-70a	8.21-15-35	8.21-15-70	8.21-15-110	8.21-16-35	8.21-17-35	8.21-17-35a	8.21-18-35	8.21-18-55	8.21-18-55a	GP19-25	GP19-35
Depth Interval, ft (bgs) Sample Elevation, ft AMSL	69-70 795-794	34-35 833-832	54-55 813-812	69-70 798-797	34-35 834-833	54-55 814-813	69-70 799-798	69-70 799-798	34-35 831-830	69-70 796-795	109-110 756-755	34-35 847-846	34-35 849-848	34-35 849-848	34-35 835-834	54-55 815-814	54-55 815-814	21-25 850-846	31-35 840-836
olatile Organic Compounds	ug/L	20							resign the section of the section of					1					
1,1-Dichloroethane	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	<0.5
cis-1,2-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	11	24
1,1,1-Trichloroethane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.9	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	0.5	0.5	< 0.5	< 0.5
n-Propylbenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5
sec-Butylbenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5
n-Butylbenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5
Carbon tetrachloride	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	< 0.5	0.7	0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	0.6	< 0.5	< 0.5	< 0.5	0.5	0.5	0.6	<0.5	<0.5	0.8	
Bromofluorobenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5
Ethylbenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	< 0.5
Methylene chloride	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	< 0.5
Trichloroethene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.2	< 0.5	< 0.5	< 0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	2.1	0.7
Toluene	0.5	1.7	1.2	< 0.5	1.0	1.4	0.5	0.7	1.5	0.5	<0.5	1.3	1.5	1.5	1.6	<0.5	<0.5	2.4	9.2
trans-1,2-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5		1.3
Tetrachloroethene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	32	3.8	3.7	4.8	2.9	3.0	< 0.5	< 0.5
Total xylenes	< 0.5	1.0	0.7	< 0.5	0.6	0.7	< 0.5	< 0.5	0.6	< 0.5	<0.5	0.6	0.9	0.9	0.9	< 0.5	<0.5	31	351
1,2,4 Trimethylbenzene	< 0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	0.5	0.6	0.9	<0.5	<0.5	2.0	0.8
1,2-Dichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9 <0.5	0.6 < 0.5

Sample Number	GP19-45	GP20-25	GP20-35	GP20-45	GP21-25	GP21-35	GP21-45	GP21-45a	GP22-25	GP22-35	GP22-45	GP23-20	GP23-35	GP23-45	GP24-35	GP24-35a	GP24-45	GP25-35	GP25-45
Depth Interval, ft (bgs)	41-45	21-25	31-35	41-45	21-25	31-35	41-45	41-45	21-25	31-35	41-45	16-20	31-35	41-45	31-35	31-35	41-45	31-33	41-45
Sample Elevation, ft AMSL	830-826	851-847	841-837	831-827	845-841	835-831	825-821	825-821	846-842	836-832	826-822	842-838	827-823	817-813	834-830	834-830	824-820	843-839	833-829
olatile Organic Compounds,	ug/L										and the second s								
1,1-Dichloroethane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.9	< 0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene	0.9	9.9	2.6	< 0.5	6.4	< 0.5	15	< 0.5	2.3	2.6	2.2	116	12	< 0.5	3.4	3.4	< 0.5	< 0.5	< 0.5
1,1,1-Trichloroethane	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	2.0	0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	< 0.5	< 0.5
n-Butylbenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzene	0.6	0.8	0.6	< 0.5	0.6	< 0.5	0.9	< 0.5	0.6	< 0.5	0.7	0.8	< 0.5	< 0.5	0.7	< 0.5	< 0.5	0.5	<0.5
Bromofluorobenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	4.8	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5
Methylene chloride	< 0.5	< 0.5	0.8	< 0.5	0.7	< 0.5	< 0.5	0.5	< 0.5	< 0.5	0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5
Trichloroethene	< 0.5	3.6	1.0	< 0.5	0.5	< 0.5	5.0	< 0.5	0.5	< 0.5	1.8	349	275	23	1.1	1.2	<0.5	<0.5	2.5
Toluene	1.5	2.1	1.9	< 0.5	1.9	1.1	2.3	0.9	1.7	1.1	2.0	1.8	1.1	1.0	1.9	1.2	0.5	1.3	< 0.5
trans-1,2-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	2.0	<0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5
Tetrachloroethene	16	111	17	3.1	0.8	< 0.5	156	< 0.5	1.6	< 0.5	13	65	21	0.8	7.3	8.6	<0.5	1.6	<0.5
Total xylenes	0.9	1.1	1.0	< 0.5	1.3	0.6	1.2	0.5	1.2	0.6	1.1	1.0	0.6	0.6	1.7	0.8	<0.5	0.9	<0.5
1,2,4 Trimethylbenzene	0.6	0.7	0.7	< 0.5	0.9	< 0.5	0.9	< 0.5	0.8	< 0.5	0.7	0.6	< 0.5	< 0.5	0.8	0.5	<0.5	0.5	<0.5
1,2-Dichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	< 0.5	<0.5 <0.5

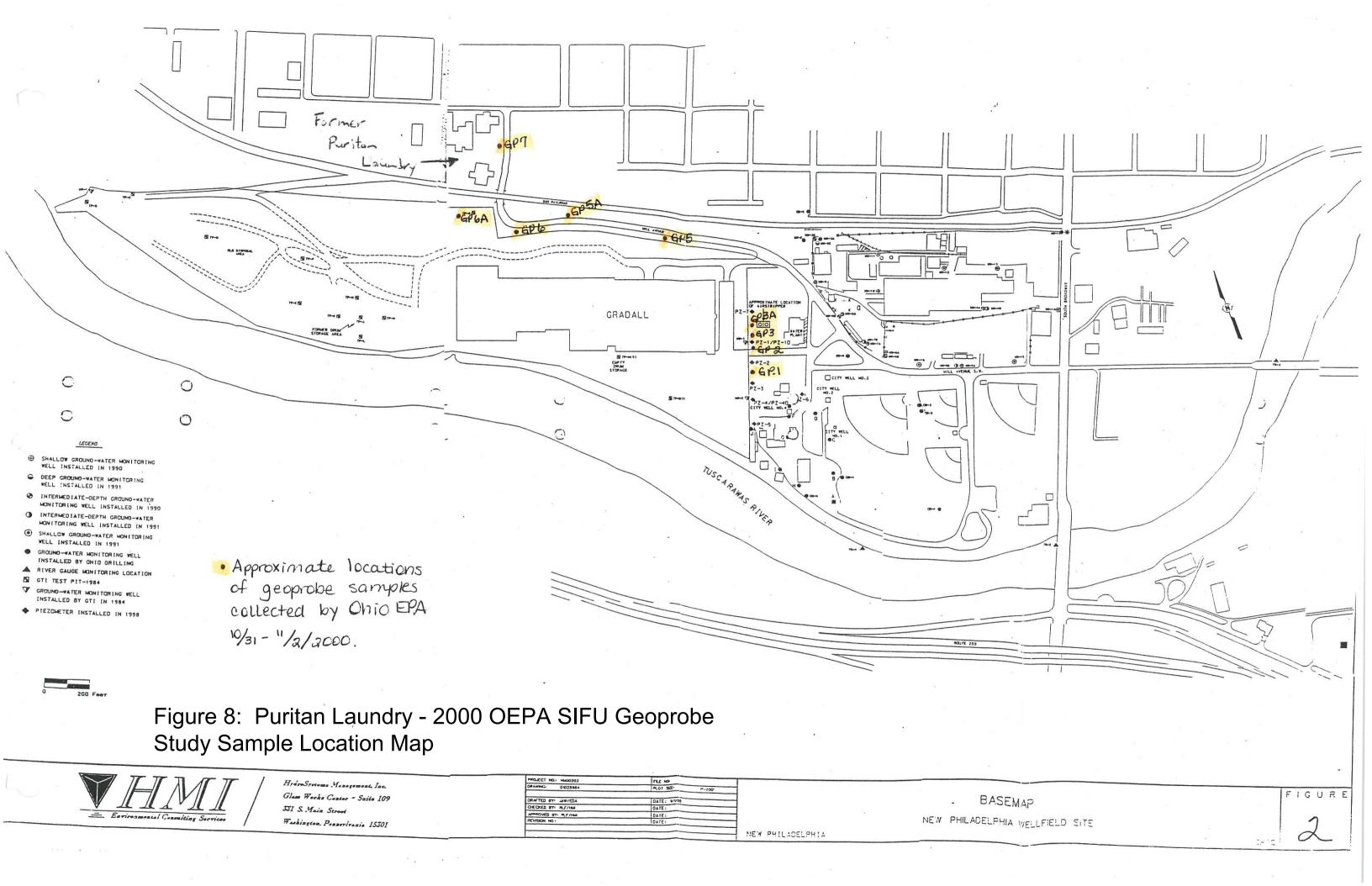


Table 2 2000 OEPA SIFU Geoprobe Study Summary of Laboratory Analytical Results New Philadelphia, Ohio

			Concentration, ug/l									
Sample Location	Depth Interval, ft	Tetrachloroethene	Trichloroethene	1,2- Dichloroethene	Total Aromatic Hydrocarbons							
GP-1	16 - 20	5.2	ND ^a	ND	ND							
GP-1	36 - 40	ND	ND	ND	ND							
GP-1	56 - 60	ND	ND	ND	ND							
GP-2	16 - 20	65.6	ND	10.1	ND							
GP-2	36 - 40	ND	ND	ND	ND							
GP-2	56 - 60	ND	ND	ND	ND							
GP-2	88 - 92	ND	ND	ND	ND							
GP-3	16 - 20	18.8	ND	ND	ND							
GP-3	36 - 40	ND	ND	ND	ND							
GP-3	56 - 60	ND	ND	ND	ND							
GP-3A	16 - 20	ND	ND	ND	ND							
GP-3A	36 - 40	ND	ND	ND	ND							
GP-3A	56 - 60	ND	ND	ND	ND							
GP-5	16 - 20	ND	ND	ND	2							
GP-5	36 - 40	ND	ND	ND	ND							
GP-5	56 - 60	6.4	ND	ND	ND							
GP-5A	16 - 20	20.6	ND	ND	ND							
GP-5A	36 - 40	494	13	16.2	ND							
GP-5A	56 - 60	ND	ND	ND	ND							
GP-5A	88 - 92	ND	ND	ND	ND							
GP-6	16 - 20	ND	ND	ND	ND							
GP-6	36 - 40	ND	ND	ND	ND							
GP-6	56 - 60	ND	ND	ND	ND							
GP-6A	16 - 20	ND	ND	ND	ND							
GP-6A	36 - 40	ND	ND	ND	ND							
GP-6A	56 - 60	ND	ND	ND	ND							
GP-6A	16 - 20	ND	ND	ND	ND							
GP-7	16 - 20	7.2	ND	ND	ND							
GP-7	36 - 40	ND	ND	ND	ND							
GP-7	56 - 60	ND	ND	ND	ND							
GP-7	78 - 82	ND	ND	ND	ND							

a ND = non detect; not quantified above the laboratory detection limits.

Appendix B
Well Logs



Water Well Log and Drilling Report

Ohio Department of Natural Resources Division of Soil and Water Phone: 614-265-6740 Fax: 614-265-6767

Borehole Depth: 1: 196 ft.

Casing Length: 1:

Total Depth: 196 ft.

Slot Size:

Material:

Placed:

Placed

Test Rate:

Vol/Wt Used:

Vol/Wt Used:

Aquifer Type: GRAVEL

2:

Well Log Number: 9979082

Depth to Bedrock:

Well Use:

Screen Length:

Associated Reports

Casing Thickness: 1:

2:

Section Number:

Lot Number:

Zip Code: **Location Area:**

ORIGINAL OWNER AND LOCATION

Original Owner Name: CITY OF NEW PHILADEL

County: TUSCARAWAS Township: GOSHEN

Address:

City: State: OH

Location Number: 16

Location Map Year: 1945 Latitude: 40.483310 Longitude: -81.450191

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Casing Diameter: 1:

Casing Height Above Ground: Date of Completion: 5/24/1946

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Method of Installation:

WELL TEST DETAILS

Static Water Level:

Drawdown:

COMMENTS:

Test Duration: WELL LOG

Formations From To CLAY 0 21 21 **FINE GRAVEL** 67 103 **COARSE GRAVEL** 67 128 COARSE GRAVEL 103 **COARSE GRAVEL** 128 163 COARSE SAND 163 172 COARSE GRAVEL 172 196

Printing Tips (opens in new window)

Well log questions - Web site questions - Web policies

OHIO WATER SUPPLY BOARD

- 0	
77	Goshen 7 Sec.
Co. Tuscarawas Twi	o Goshen / Sec.
	Size
an P	nhia
Owner of New -	hiladel ^{phia} Address
Driller	Date
	* *
Well Head Elev. or M. P	
Elev. of Ground at Well	
W. Contragram Street Management Street, Co. Str.	
	Date
Normal Pumpage	
	· v
Ouality	
2	(*
Adequacy of supply	x= 2292500
aradamo, ox supply	4: N 299000
	100 × 1000
Owner's Well No. or Other	Designation Test well
Source of Data Dept.	of health
Collected by CVY	Date 5/24/46.

Well Record No. 16

COM CTDATA	DE	PTH ·
9979082 STRATA	From	To
and the same of th	,	
Clay	0	2005
Fine sharp gravel		66.1
Coarse sharp gravel		02.0
Coarse sharp gravel		27.4
Coarse gravel		62.3
Coarse sand		72.0
Coarse gravel		96.0
		-
Layne Bowler Well		l
100' gravel packing	100	
1921 inspection - locat	ed or	N.
bank of Tuscar	awas	Rive
South of city.		ľ

* * *		
Chemical analysis on file		
The state of the s		
Laterature indicates valley flow		
and the same of th		
00 640 mal - 240'UN.		

Well Record No. 330 OHIO WATER RESOURCES BOARD DEPTH 65756 STRATA From To Twp. Goshen Il Location 1 block E. of sq.in Size 8" x 82'9" 8219 Gravel and sand ew Phila on S. side of St. Map Uhrichsville vner Elks Club Address New Philadelphia iller Everett Waltz and Co Date 9-1948 Perforated casing: 3000 holes Turbine pump ell Head Elev. or M. P. Capacity - 125 GPM Depth of setting: 70' ey, of Ground at Well..... mping Test: 250 GPM 421 Date 9-1948 rmal Pumpage ality ______Use_____ equacy of supply X = 22937004=N 301000 mer's Well No. or Other Designation.

Chief Aquifer

rce of Data Driller
lected by ______ cb ____ Date 1949

WELT LOG AND DRILLING REPORT

Nº 345903

ORIGINAL

State of Ohio

PLEASE USE PENCIL OR TYPEWRITER

DO NOT USE INK.

DEPARTMENT OF NATURAL RESOURCES Division of Water

1562 W. First Avenue Columbus, Ohio 43212

County /USCAYAWAS	Township	Goshe	Section of Township
Owner CITY OF New PA	Iladelp	hia	Address New Philadel Phia Ottio
			TYAWAS River AND 800 Ft North of Ponte 16
CONSTRUCTION	DETAILS		BAILING OR PUMPING TEST
Casing diameter 26"x36 Leng	- AND CLOSE PROJECTS OF THE PROPERTY		Pumping Rate 2000 G.P.M. Duration of test 8 hrs.
Type of screen SAINLESS Leng			Drawdown 7 /2 # Date Nov . 21 - 1966
Type of pump Deep Well			Static level-depth to waterft.
Capacity of pump Test		.,,	Quality (clear, cloudy, taste, odor)
Depth of pump setting 60			
Date of completion. Nov 2	9-1966		Pump installed by A DYCY
WELL LO	G*		SKETCH SHOWING LOCATION
Formations Sandstone, shale, limestone, gravel and clay	From	То	Locate in reference to numbered State Highways, St. Intersections, County roads, etc.
Clay + Sand	0 Feet	/0 Ft.	N.
SAND, Gravel + MAY	10	40 "	
SAMO & GraveL	40	75) .
SAND Grayel + Little El	21 75	90"	1 1 1 200: -
SANd + GrayeL	90	120 -	W. 800 E.
			Koutell &
			1 ST
э			S. See reverse side for instructions
Drilling Firm The Ohio	Drill	ING Co	Date Nov. 30 - 1966
Address MASSILLON			Signed Gillerga (154)
*It additional space is nee	eded to co	omplete w	zell log use next consecutive numbered

WELL LOG AND DRILLING REPORT

Νò

ORIGINAL

345907

PLEASE USE PENCIL OR TYPEWRITER

State of Ohio DEPARTMENT OF NATURAL RESOURCES

Division of Water 1562 W. First Avenue DO NOT USE INK.

Columbus, Ohio 43212 CHYAWAS Township GOSHEN Section of Township - New Philidelphia Address New Pollador Him Chio AST OF TUSE A YOWAS TIVEY + 800 NOTHER ROUTE 16 CONSTRUCTION DETAILS BAILING OR PUMPING TEST Casing diameter 26x 36" Length of casing 65 Pumping Rate 2000. G.P.M. Duration of test. 8 hrs. Drawdown 7 ft. Date Feb-1-1967 Type of screen StainlesSLength of screen 60 Type of pump Deca Well Turbine Static level-depth to water _____ft_ Capacity of pump Tes? Quality (clear, cloudy, taste, odor)..... Depth of pump setting 60 Date of completion Feb 3 - 1967 Pump installed by Merb WELL LOG* SKETCH SHOWING LOCATION Formations Locate in reference to numbered Sandstone, shale, limestone, From To State Highways, St. Intersections, County roads, etc. gravel and clay N. 0 Feet 0 Ft. SAND + GYAVE SAND + GYAVE W. E. 200 Paute No 16 See reverse side for instructions Date ... ESSILLON OLGIO Signed *If additional space is needed to complete well log, use next consecutive numbered form

154

DNR 7802.05e

WELL LOG AND DRILLING REPORT
Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number 2002688

Voice (614) 265-674	0 Fax (614) 265-6767 Page 1 of 1 for t	his record.
WELL LOCATION	CONSTRUCTION DETAILS	
	Drilling Method: ROTARY	
County TUSCARAWAS Township GOSHEN	BOREHOLE/CASING (Measured from ground surface)	
	Borehole Diameter 10 inches Depth 1	15 ft
OHIO DEPT. OF NATURAL RESOURCES	Casing Diameter 5 in. Length 105 ft. Thickness	
Owner/Builder	Borehole Diameterinches Depth	ft
310 SW MILL AVE Address of Well Location	Casing Diameterin. Lengthft.Thickness	
	Casing Height Above Ground3	ft
City NEW PHILADELPHIA Zip Code +4	Casing Height Above Ground 3 Type { 1: Steel 2:	
Permit No Section; and or Lot No	12:	
Use of Well_MONITOR	Joints 1: Threaded 2:	
Coordinates of Well (Use only one of the below coordinate systems)		
State Plane Coordinates	SCREEN	10
N □ Xft. S □ Yft.	Diameter 6 in. Slot Size 0.05 in. Screen Length	
	Type CONTINOUS WIRE WOUND Material STAINLESS Stat Retween 115 ft and 105	
Latitude, Longitude Coordinates		ft
Latitude: 0 Longitude: 0 Elevation of Well in feet: +/- ft.	GRAVEL PACK (Filter Pack) Material/ Size 1/4 x 3/8 Vol/Wt. Used 600 lbs.	
Datum Plane: NAD27 NAD83 Elevation Source	Size 1/4 x 3/0 Used Used Used Used Used Used Used Used	
Source of Coordinates: GPS		fi
Well location written description:	CROUT	т
I-29	Material Bentonite slurry Vol/Wt. Used 250 lbs.	
	Method of Installation Pumped w/Tremie pipe	
		ft.
	Deptil. Placed Plotti.	IL
	DRILLING LOG*	
Comments on water quality/quantity and well construction:	FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCO	JNTERED.
	Color Texture Formation From	m To
	FILL MATERIAL	0 8
	SANDGRAVELCLAY	8 16
	SAND AND GRAVEL 1	16 115

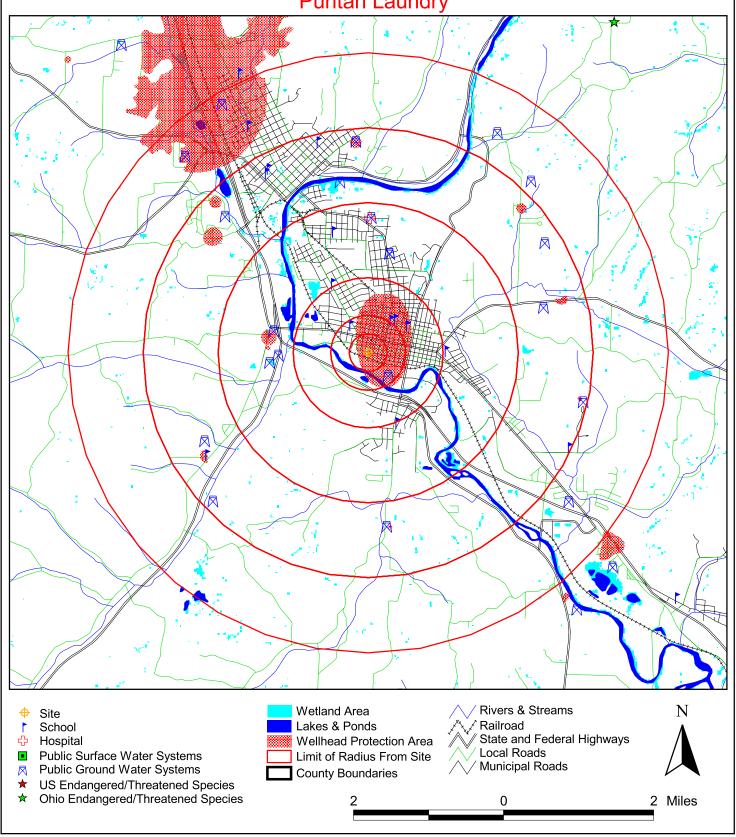
WELL TEST *		
Pre-Pumping Static Level 12 ft. Date 2/8/2006		
Measured from GROUND LEVEL		
Pumping test method AIR		
Test Rate500 gpm Duration of Test0.5 hrs.		
Feet of Drawdown0 ft. Sustainable Yield500gpm		
*(Attach a copy of the pumping test record, per section 1521.05, ORC)		
s Copy Attached? ☐ Yes		
PUMP/PITLESS		
FOMF/FITEL33		
Type of pumpgpm		
Pump set atft. Pitless Type		
Pump installed by		
I hereby certify the information given is accurate and correct to the best of my knowledge.		
Drilling Firm FRONTZ DRILLING, INC.		
Address 2031 MILLERSBURG RD		
City, State, Zip WOOSTER OH 44691		
Signed BRAD KITCHEN Date 5/5/2006 (Filed Electronically)	Aguitor Tupo (Formation producing the most water) SAND AND CDAYEL	
	Aquifer Type (Formation producing the most water.) SAND AND GRAVEL Date of Well Completion 2/8/2006 Total Depth of Well	115 .
ODH Registration Number 0120ODH	Date of Well Completion 2/8/2006 Total Depth of Well	110 #

Appendix C
Geographic
Information System
Data and Maps



 ${\it Division~of~Environmental~Response~\&~Revitalization} \\ {\it GEOGRAPHIC~INFORMATION~SYSTEM~4-MILE~RADIUS~MAP} \\$

Tuscarawas County -- POPULATION Puritan Laundry



Puritan Laundry Site -- Population Data

RADIUS	TOTAL	WHITE	BLACK	INDIAN	ASIAN	HAWAII_PAC	OTHER	HOUSING
3.00 - 4.00	6442	6342	18	9	29	1	42	2512
2.00 - 3.00	7329	7115	95	8	29	6	76	2940
1.00 - 2.00	8616	8352	130	16	35	6	77	3770
0.50 - 1.00	4970	4822	42	11	15	3	76	2204
0.25 - 0.50	1766	1670	25	4	9	2	57	760
0.00 - 0.25	774	731	10	1	4	1	27	324
TOTAL =	29897	29032	320	49	121	19	355	12510

NOTE: 7,510 people live within a one-mile radius of the site.

NOTE: The Easting & Northing used for the site was a centroid, based on Preclaims data: Easting (X) = 2258791.16 & Northing (Y) = 908113.44

[North Latitude of 40.488514° & West Longitude of -081.456483°; or, 40° 29' 18.22" N, -081° 27' 23.34" W.]

Puritan Laundry Site -Public Water Supply Systems with Ground Water or Surface Water Sources

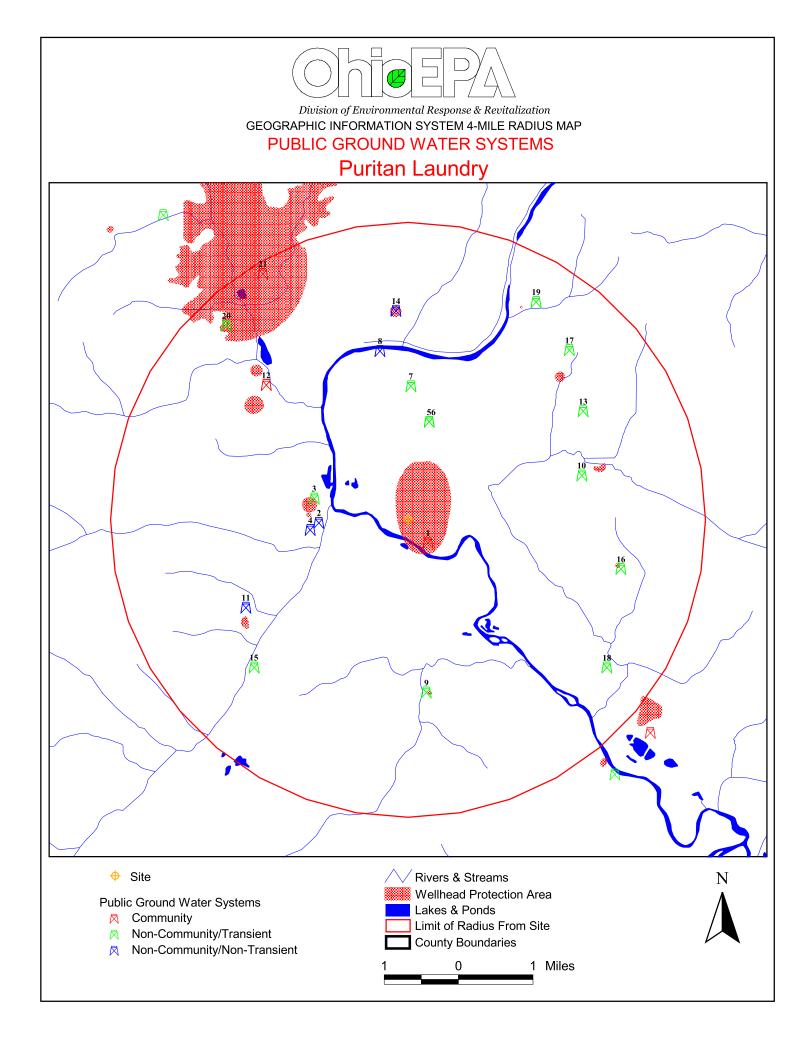
Public Water Supplies with Ground Water Sources

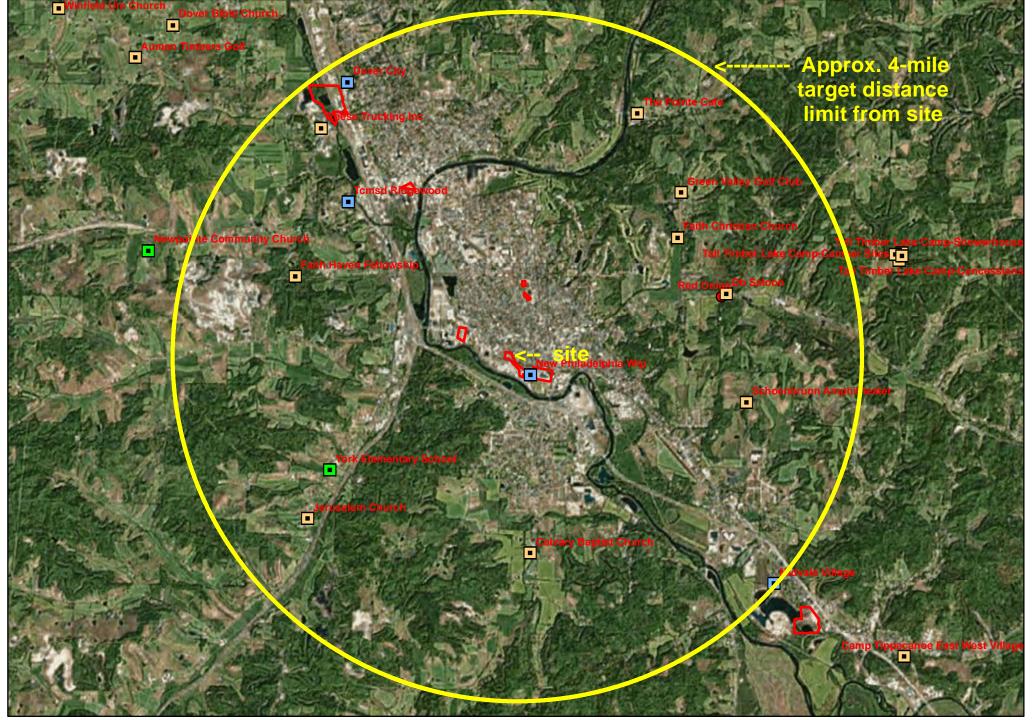
ID_	PWS_ID	SYSTEM_TYPE	NAME	ADDRESS	ADDRESS CITY		DISTANCE	* POPULATION
1	7900812	Community	NEW PHILADELPHIA, CITY OF	310 MILL AVENUE, SW NEW PHILADELPHIA		ОН	0.4106	17056
2	7936412	Non-Community/Non-Transient	ALL-STATE TRUCK SALES 327 STONECREEK RD., NW NEW PHILADELPHIA		ОН	1.2019	48	
3	7947112	Non-Community/Transient	EAGLE TRUCK PLAZA, LTD. 217 16TH ST. SE NEW PHILADELPHIA		NEW PHILADELPHIA	ОН	1.2947	150
4	7940912	Non-Community/Non-Transient	DEPT. OF HUMAN SERVICES	DEPT. OF HUMAN SERVICES 247 STONECREEK RD. NW NE		ОН	1.3245	140
5	0335012	Non-Community/Transient	MWCD - CM PK CM5	1319 THIRD ST.,NW, P.O.BOX 349	NEW PHILADELPHIA	ОН	1.3431	700
6	0343612	Non-Community/Transient	MWCD - EAGLE PT CM9	1319 THIRD ST.,NW, P.O.BOX 349	NEW PHILADELPHIA	ОН	1.3431	500
7	7948112	Non-Community/Transient	UNION HOSPITAL	TAL 659 BOULEVARD DOVER (ОН	1.7933	110
8	7946812	Non-Community/Non-Transient	A.K. STEEL CORPORATION	303 OXFORD ST.	DOVER	ОН	2.2988	130
9	7948512	Non-Community/Transient	CALVARY BAPTIST CHURCH	1507 OLD TOWN VALLEY RD., SE	NEW PHILADELPHIA	ОН	2.3390	150
10	7936112	Non-Community/Transient	RED ONION	3673 DOVER-ZOAR RD., NE	DOVER	ОН	2.4076	66
11	7950512	Non-Community/Transient	Faith Christian Church	2012 Pleasant Valley Rd., NE	NEW PHILADELPHIA	ОН	2.4767	200
12	7942012	Non-Community/Non-Transient	YORK ELEMENTARY SCHOOL	938 STONE CREEK RD., SW	NEW PHILADELPHIA	ОН	2.4843	180
13	7901912	Community	TCMSD - RIDGEWOOD	9962 WILKSHIRE BLVD.	BOLIVAR	ОН	2.6307	498
14	7937812	Non-Community/Transient	DB Saloon (THE PLACE ON 39)	2397 STATE ROUTE 39, NE	NEW PHILADELPHIA	ОН	2.7665	75
15	7947812	Non-Community/Non-Transient	GREER STEEL CO.	BOAT STREET	DOVER	ОН	2.8115	130
16	7941012	Non-Community/Transient	Jerusalem Ch. (UNITED C.O.C.)	1417 STONE CREEK RD., SW	NEW PHILADELPHIA	ОН	2.8719	200
17	7948212	Non-Community/Transient	SCHOENBRUNN AMPHITHEATER	P.O. BOX 450	NEW PHILADELPHIA	ОН	2.9373	200
18	7934512	Non-Community/Transient	GREEN VALLEY GOLF CLUB	2673 PLEASANT VALLEY RD., NE	NEW PHILADELPHIA	ОН	3.1440	100
19	7948812	Non-Community/Transient	STATE HIGHWAY PATROL POST	2454 E. HIGH AVENUE	NEW PHILADELPHIA	ОН	3.3320	40
20	7932812	Non-Community/Transient	The Pointe Café (LA CANTINA)	3342 BLACKSNAKE HILL RD., NE	DOVER	ОН	3.3930	70
21	7938312	Non-Community/Transient	REESE TRUCKING, INC.	3148 REESE RD., NW.	DOVER	ОН	3.5754	40
22	7900412	Community	DOVER, CITY OF	WEST SEVENTEENTH ST.	DOVER	ОН	3.8394	12826

Public Water Supplies with Surface Water Sources

ID_	PWS_ID	SYSTEM_SOURCE SYSTEM_TYPE	NAME	ADDRESS	CITY	STATE	DISTANCE	POPULATION *
1	7901711	Surface Water Community	TWIN CITY WATER & SEWER DIST.	1580 BOYD STREET	UHRICHSVILLE	ОН	10.0107	9224
2	1038411	Surface Water Non-Community / Transient	MWCD - ATWOOD PARK	1319 THIRD ST., NW; P.O. BOX 349	NEW PHILADELPHIA	ОН	11.2812	2400
3	1038311	Surface Water Non-Community / Non-Transient	MWCD - ATWOOD RESORT	1319 THIRD ST., NW; P.O. BOX 349	NEW PHILADELPHIA	ОН	12.0318	315

^{* =} Population numbers updated with recent Ohio EPA--Drinking Water's PWS GIS Data







Puritan Laundry Site -- New Philadelphia, Tuscarawas Co. ~4-mile Radius Map -- Updated with Recent DDAGW PWS Data



Puritan Laundry Site -- Natural Heritage Data

ID_	STATUS	DISTANCE [Miles]	SCI_NAME [Scientific Name]	COM_NAME [Common Name]
1	State Threatened	5.4960	BOTRYCHIUM MULTIFIDUM	LEATHERY GRAPE FERN
2	State Endangered	7.9915	CRYPTOBRANCHUS ALLEGANIENSIS	EASTERN HELLBENDER
3	State Endangered	8.5500	GOMPHUS EXTERNUS	PLAINS CLUBTAIL
4	State Endangered	8.7956	GOMPHUS EXTERNUS	PLAINS CLUBTAIL
5	State Threatened	9.6298	ASTER DRUMMONDII	DRUMMOND'S ASTER
6	State Threatened	10.1653	ASTER DRUMMONDII	DRUMMOND'S ASTER
7	State Threatened	10.2420	ASTER DRUMMONDII	DRUMMOND'S ASTER
8	State Threatened	10.3573	ASTER DRUMMONDII	DRUMMOND'S ASTER
9	State Threatened	10.4161	TYTO ALBA	BARN OWL
10	Federally Endangered	10.9557	PLEUROBEMA CLAVA	CLUBSHELL
11	State Threatened	11.0763	TYTO ALBA	BARN OWL
12	State Threatened	11.4799	ASTER DRUMMONDII	DRUMMOND'S ASTER
13	State Threatened	11.5339	CAREX SPRENGELII	SPRENGEL'S SEDGE
14	State Threatened	11.5412	ASTER DRUMMONDII	DRUMMOND'S ASTER
15	State Threatened	12.1557	CAREX SPRENGELII	SPRENGEL'S SEDGE
16	State Threatened	14.0566	CAREX RETROFLEXA VAR RETROFLEXA	REFLEXED SEDGE
17	State Threatened	14.4674	BOTRYCHIUM MULTIFIDUM	LEATHERY GRAPE FERN

